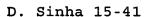
### We Claim:

- 1 Apparatus for communicating a signal over a
- 2 plurality of communication channels, the signal including at
- 3 least a first component and a second component, the
- 4 apparatus comprising:
- 5 a processor for generating at least a first
- 6 representation and a second representation of the signal,
- 7 the first representation containing first information
- 8 concerning at least the first component, and second
- 9 information concerning at least one coefficient for
- 10 predicting the second component based on the first
- 11 information, the second representation containing third
- 12 information concerning at least the second component, and
- 13 fourth information concerning at least one coefficient for
- 14 predicting the first component based on the third
- 15 information; and
- an output device for transmitting the first
- 17 representation and the second representation through the
- 18 communication channels.
  - 1 2. The apparatus of claim 1 wherein the signal
  - 2 includes a stereo audio signal.
  - 1 3. The apparatus of claim 2 wherein the first
  - 2 component includes a left channel signal of the stereo audio
  - 3 signal, and the second component includes a right channel
  - 4 signal thereof.
  - 1 4. The apparatus of claim 1 wherein the first
  - 2 information concerns a combination of the first component
  - 3 and the second component.



1	5.	The	apparatus	of	claim	4	wherein	the
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- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 6. The apparatus of claim 1 wherein the third
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 7. The apparatus of claim 6 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 2 least a first component and a second component, the
- 3 apparatus comprising:
- 4 a receiver for receiving at least a first
- 5 representation and a second representation of the signal,
- 6 the first representation containing first information
- 7 concerning at least the first component, and second
- 8 information concerning at least one coefficient for
- 9 predicting the second component based on the first
- 10 information, the second representation containing third
- 11 information concerning at least the second component, and
- 12 fourth information concerning at least one coefficient for
- 13 predicting the first component based on the third
- 14 information; and
- a processor for selecting use of at least one of
- 16 the first representation and the second representation to
- 17 recover the signal.
- 9. The apparatus of claim 8 wherein the at least
- 2 one of the first representation and the second

- 3 representation is selected based on a measure of corruption
- 4 of the selected representation.
- 1 10. The apparatus of claim 9 wherein the first
- 2 representation and the second representation are encoded in
- 3 accordance with a forward error correction coding technique.
- 1 11. The apparatus of claim 10 wherein the measure
- 2 is a function of a count of detections of errors in the
- 3 selected representation, in accordance with the forward
- 4 error correction coding technique.
- 1 12. The apparatus of claim 9 wherein the first
- 2 representation and the second representation are received
- 3 from a plurality of communication channels, respectively,
- 4 the measure being a function of a signal-to-interference
- 5 ratio afforded by the communication channel from which the
- 6 selected representation is received.
- 1 13. The apparatus of claim 8 wherein the signal
- 2 includes a stereo audio signal.
- 1 14. The apparatus of claim 13 wherein the first
- 2 component includes a left channel signal of the stereo audio
- 3 signal, and the second component includes a right channel
- 4 signal thereof.
- 1 15. The apparatus of claim 8 wherein the first
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 16. The apparatus of claim 15 wherein the

- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 17. The apparatus of claim 8 wherein the third
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 18. The apparatus of claim 17 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 19/ A system for communicating a signal which
- 2 includes at least a first component and a second component,
- 3 the system comprising:
- a plurality of communication channels;
- 5 a transmitter for transmitting at least a first
- 6 representation and a second representation of the signal
- 7 through the communication channels, the first representation
- 8 containing first information concerning at least the first
- 9 component, and second information concerning at least one
- 10 coefficient for predicting the second component based on the
- 11 first information, the second representation containing
- 12 third information concerning at least the second component,
- 13 and fourth information concerning at least one coefficient
- 14 for predicting the first component based on the third
- 15 information; and
- a receiver for recovering the signal based on at
- 17 least a selected one of the first representation and the
- 18 second representation.
  - 1 20. The system of claim 19 wherein the signal
  - 2 includes a stereo audio signal.

- 1 21. The system of claim 20 wherein the first
- 2 component includes a left channel signal of the stereo audio
- 3 signal, and the second component includes a right channel
- 4 signal thereof.
- 1 22. The system of claim 19 wherein the
- 2 communication channels are simultaneously available for
- 3 transmitting the first representation and the second
- 4 representation therethrough, respectively.
- 1 23. The system of claim 19 wherein the
- 2 communication channels include satellite links.
- 1 24. The system of claim 23 wherein a third
- 2 representation of the signal is transmitted through a
- 3 selected one of the communication channels, the selected
- 4 channel includes a terrestrial link.
- 1 25. A method for communicating a signal over a
- 2 plurality of communication channels, the signal including at
- 3 least a first component and a second component, the method
- 4 comprising:
- 5 generating at least a first representation and a
- 6 second representation of the signal, the first
- 7 representation containing first information concerning at
- 8 least the first component, and second information concerning
- 9 at least one coefficient for predicting the second component
- 10 based on the first information, the second representation
- 11 containing third information concerning at least the second
- 12 component, and fourth information concerning at least one
- 13 coefficient for predicting the first component based on the
- 14 third information; and

- 15 transmitting the first representation and the
- 16 second representation through the communication channels.
- 1 26. The method of claim 25 wherein the signal
- 2 includes a stereo audio signal.
- 1 27. The method of claim 26 wherein the first
- 2 component includes a left channel signal of the stereo audio
- 3 signal, and the second component includes a right channel
- 4 signal thereof.
- 1 28. The method of claim 25 wherein the first
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 29. The method of claim 28 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 30. The method of claim 25 wherein the third
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 31. The method of claim 30 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 32. A method for recovering a signal including at
- 2 least a first component and a second component, the method
- 3 comprising:
- 4 receiving at least a first representation and a
- 5 second representation of the signal, the first

- 6 representation containing first information concerning at
- 7 least the first component, and second information concerning
- 8 at least one coefficient for predicting the second component
- 9 based on the first information, the second representation
- 10 containing third information concerning at least the second
- 11 component, and fourth information concerning at least one
- 12 coefficient for predicting the first component based on the
- 13 third information; and
- 14 selecting use of at least one of the first
- 15 representation and the second representation to recover the
- 16 signal.
- 1 33. The method of claim 32 wherein the at least
- 2 one of the first representation and the second
- 3 representation is selected based on a measure of corruption
- 4 of the selected representation.
- 1 34. The method of claim 33 wherein the first
- 2 representation and the second representation are encoded in
- 3 accordance with a forward error correction coding technique.
- 1 35. The method of claim 34 wherein the measure is
- 2 a function of a count of detections of errors in the
- 3 selected representation, in accordance with the forward
- 4 error correction coding technique.
- 1 36. The method of claim 33 wherein the first
- 2 representation and the second representation are received
- 3 from a plurality of communication channels, respectively,
- 4 the measure being a function of a signal-to-interference
- 5 ratio afforded by the communication channel from which the
- 6 selected representation is received.

- 1 37. The method of claim 32 wherein the signal
- 2 includes a stereo audio signal.
- 1 38. The method of claim 37 wherein the first
- 2 component includes a left channel signal of the stereo audio
- 3 signal, and the second component includes a right channel
- 4 signal thereof.
- 1 39. The method of claim 32 wherein the first
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 40. The method of claim 39 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 41. The method of claim 32 wherein the third
- 2 information concerns a combination of the first component
- 3 and the second component.
- 1 42. The method of claim 41 wherein the
- 2 combination of the first component and the second component
- 3 is adaptively determined.
- 1 43. A method for communicating a signal over a
- 2 plurality of communications channels, the signal including
- 3 at least a first component and a second component, the
- 4 method comprising:
- 5 transmitting at least a first representation and a
- 6 second representation of the signal through the
- 7 communication channels, the first representation containing
- 8 first information concerning at least the first component,

- 9 and second information concerning at least a first
- 10 coefficient for predicting the second component based on the
- 11 first information, the second representation containing
- 12 third information concerning at least the second component,
- 13 and fourth information concerning at least a second
- 14 coefficient for predicting the first component based on the
- 15 third information; and
- 16 recovering the signal based on at least a selected
- 17 one of the first representation and the second
- 18 representation.
  - 1 44. The method of claim 43 wherein the signal
  - 2 includes a stereo audio signal.
  - 1 45. The method of claim 44 wherein the first
  - 2 component includes a left channel signal of the stereo audio
- 3 signal, and the second component includes a right channel
- 4 signal thereof.
- 5 46. The method of claim 43 wherein the
- 6 communication channels are simultaneously available for
- 7 transmitting the first representation and the second
- 8 representation therethrough, respectively.